

Fig. 2

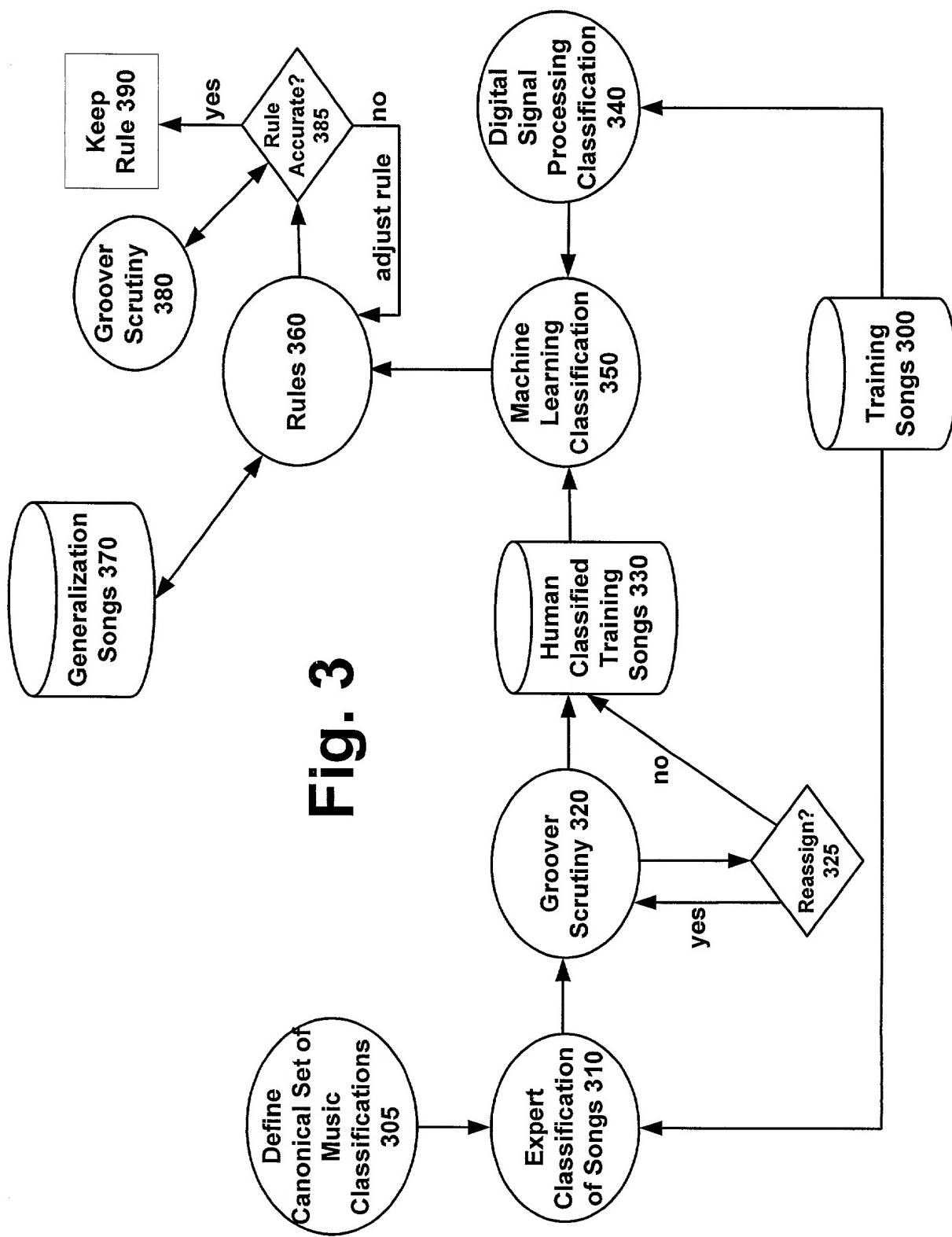


Fig. 4A

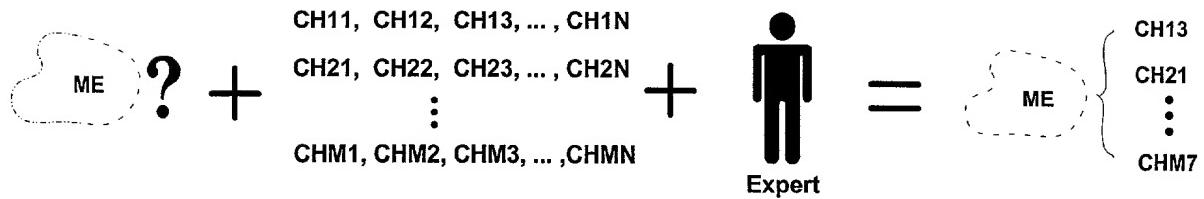


Fig. 4B

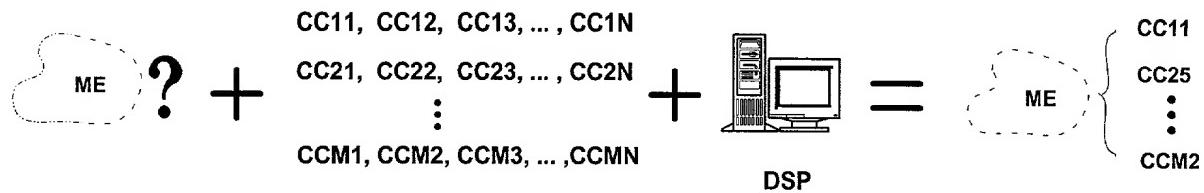


Fig. 4C

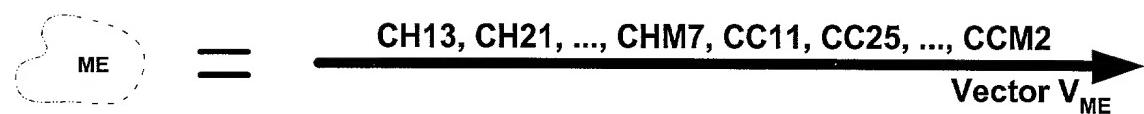


Fig. 4D

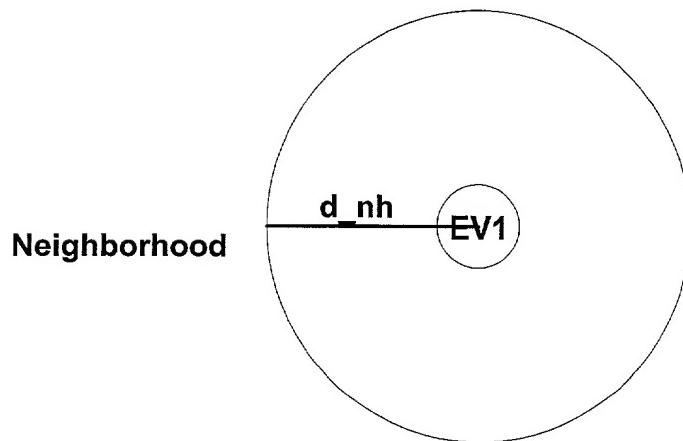


Fig. 5A

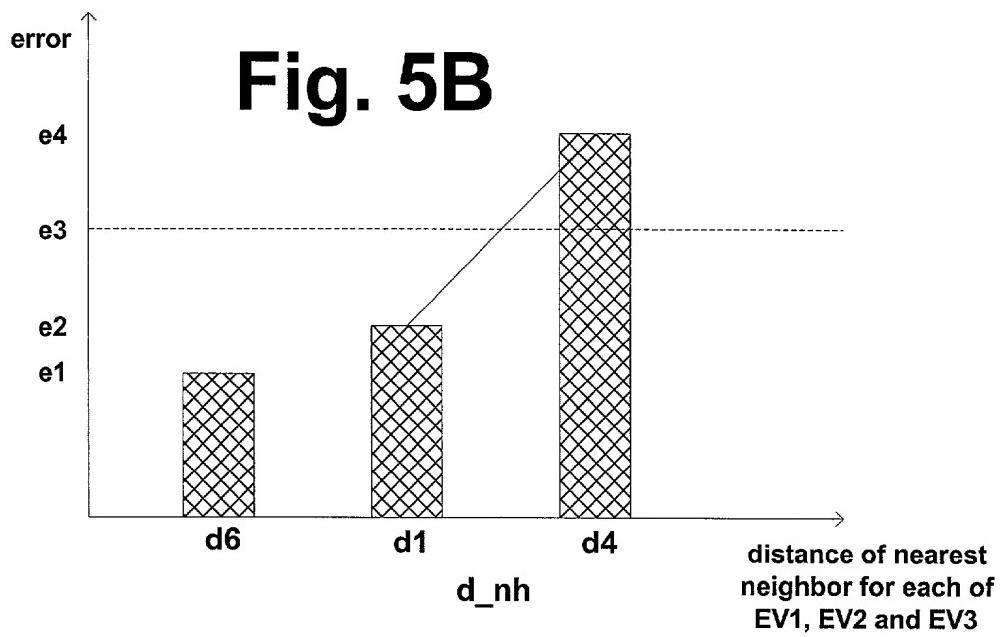
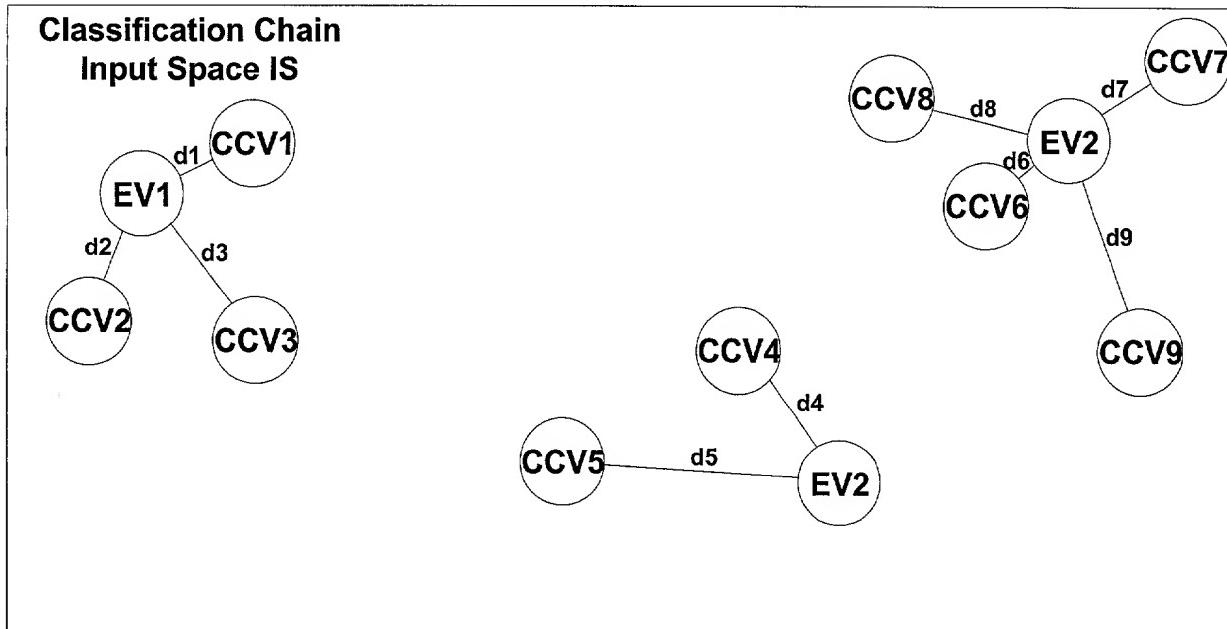


Fig. 6A

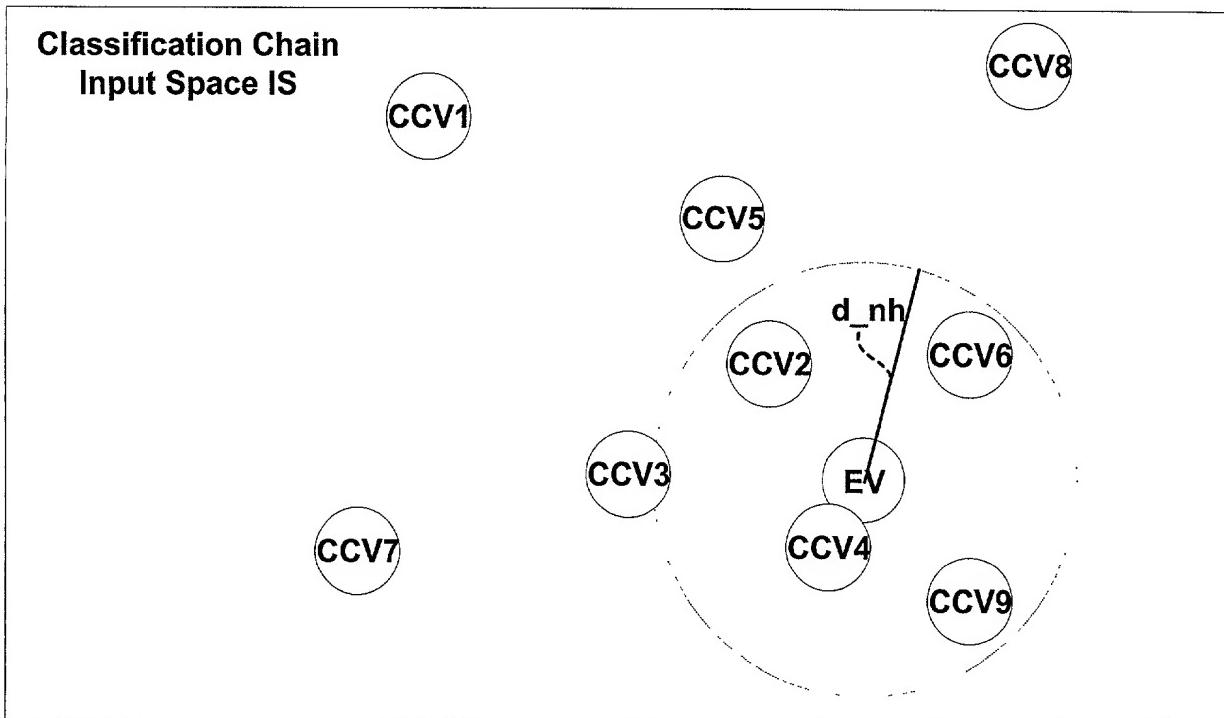
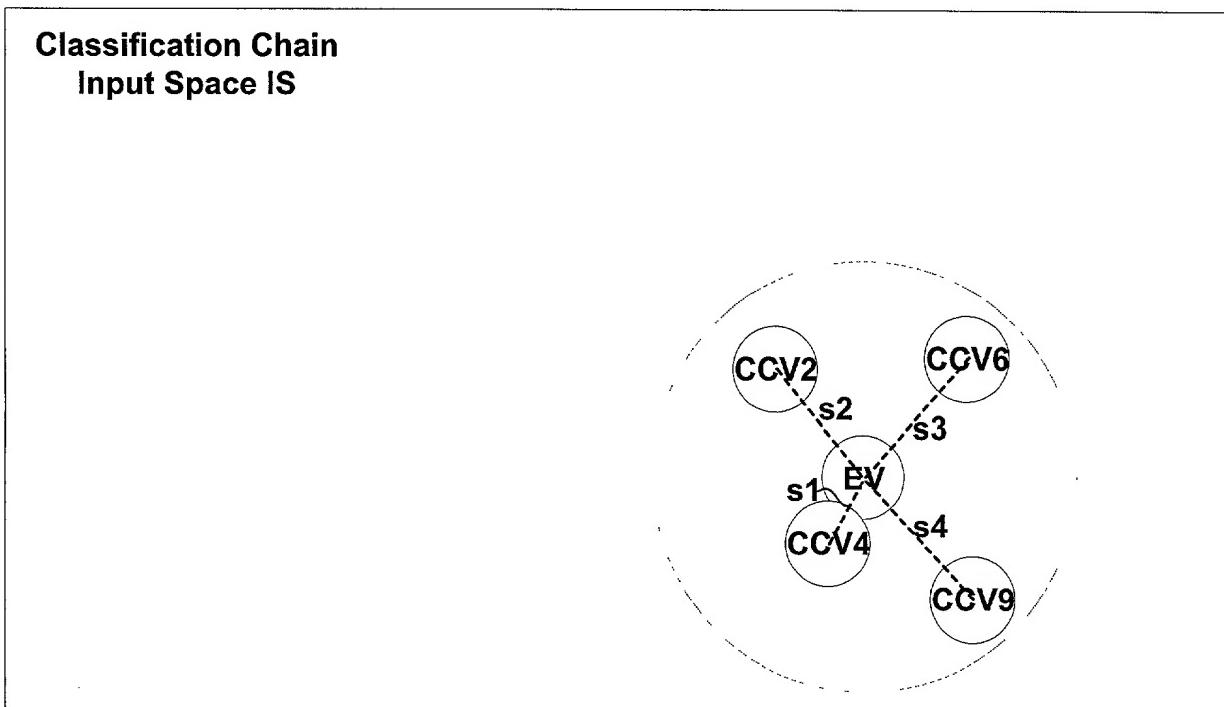


Fig. 6B



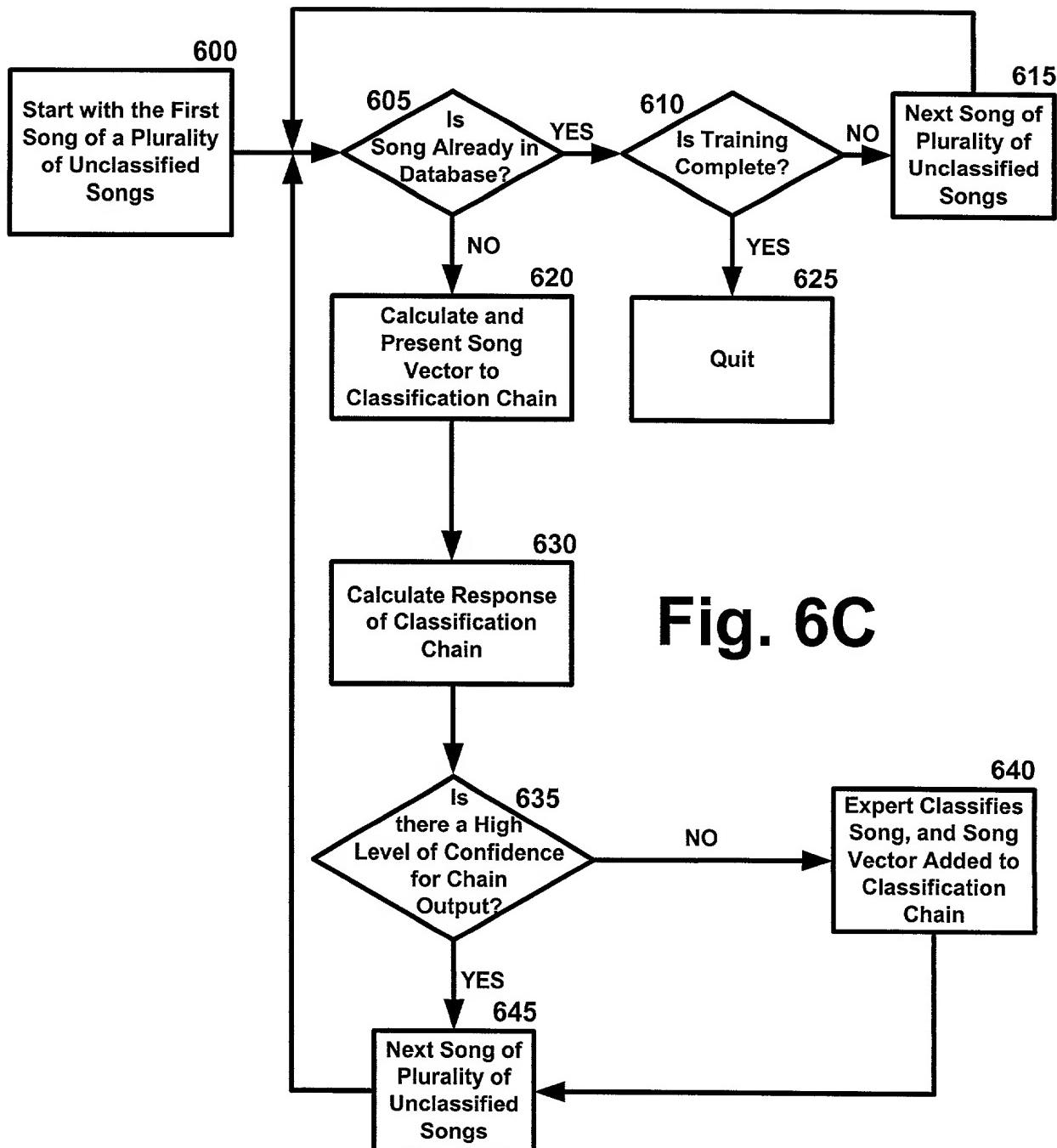


Fig. 6C

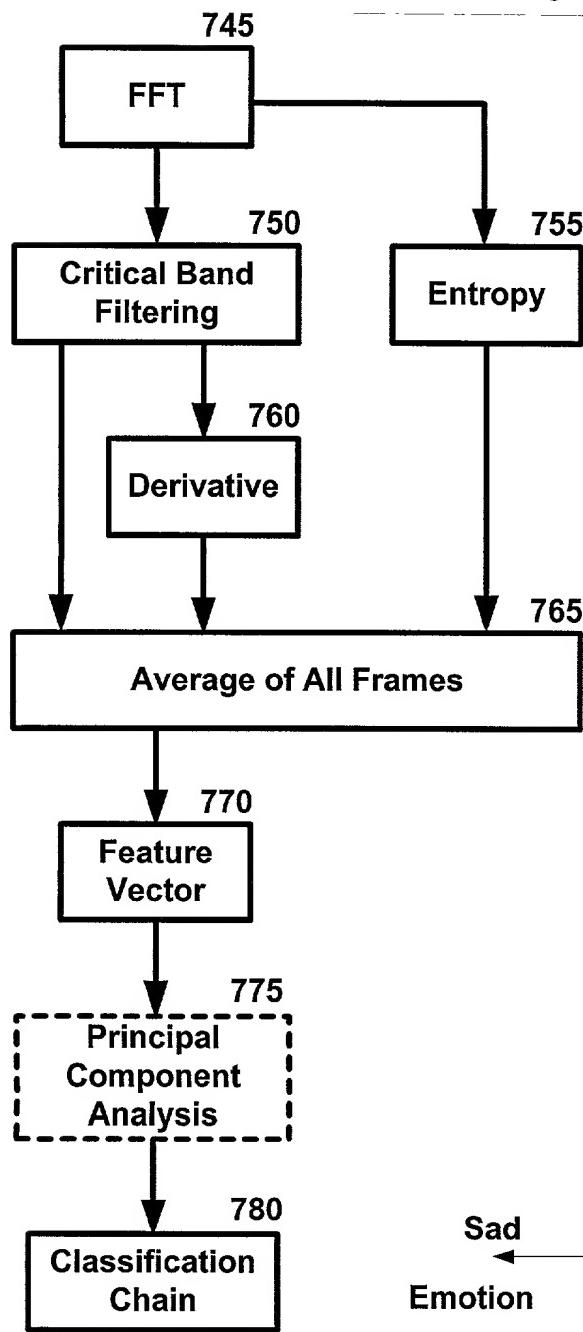


Fig. 7A

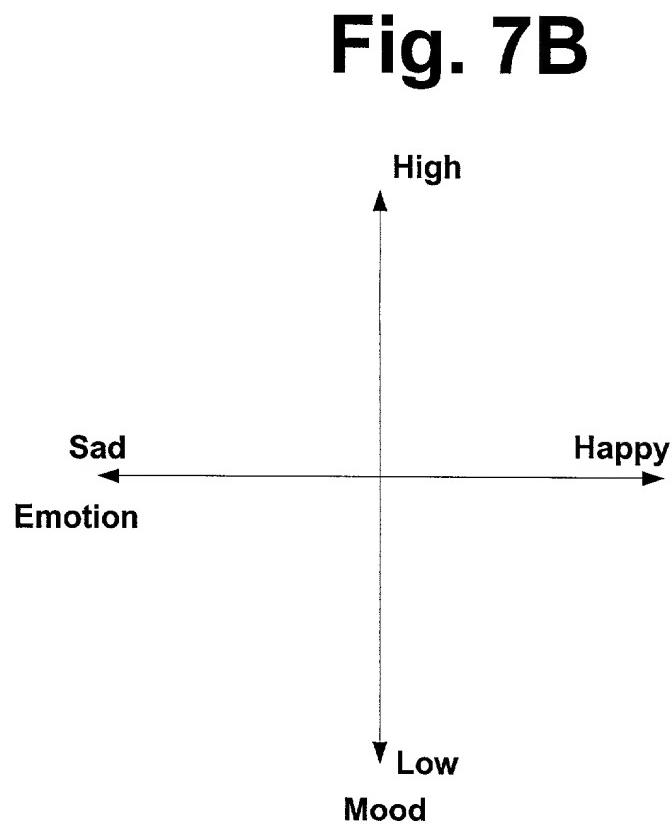
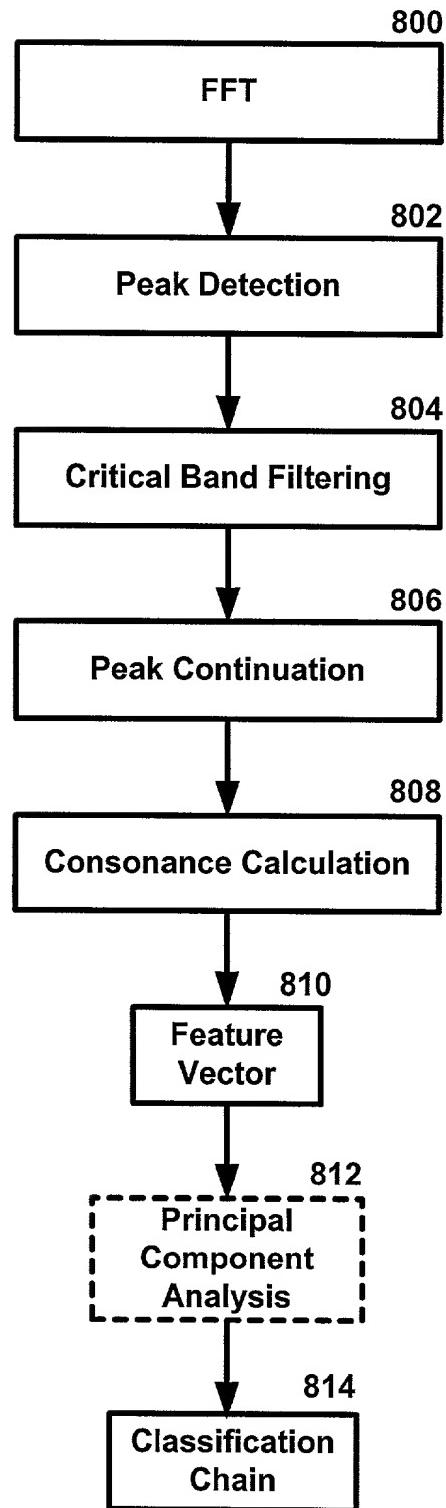


Fig. 8A



816

FrameNum = 1 : NumFrames

818

Zero-pad and Take
FFT of Audio Frame

820

Diff_FFT[] = Successive
Differences of FFT'd
Buffer

822

FFTIndex =
1:NumBins

824

Diff_FFT(FFTIndex) > 0?

NO

YES

826

Diff_FFT(FFTIndex+1) < 0?

NO

YES

828

Record Bin &
Energy into
Output Matrices

NO

830

FFTIndex++
FFTIndex >= LastBin?

YES

Fig. 8B

834

Select Top
Requested Number
of Peaks

836

PeakNum = 1: NumPeaksRequested

838

Nth Order Interpolate Peaks'
Positions and Heights

840

PeakNum++
PeakNum > NumPeaksRequested?

NO

YES

842

FrameNum++
FrameNum > NumFrames?

NO

YES

844

FINISHED

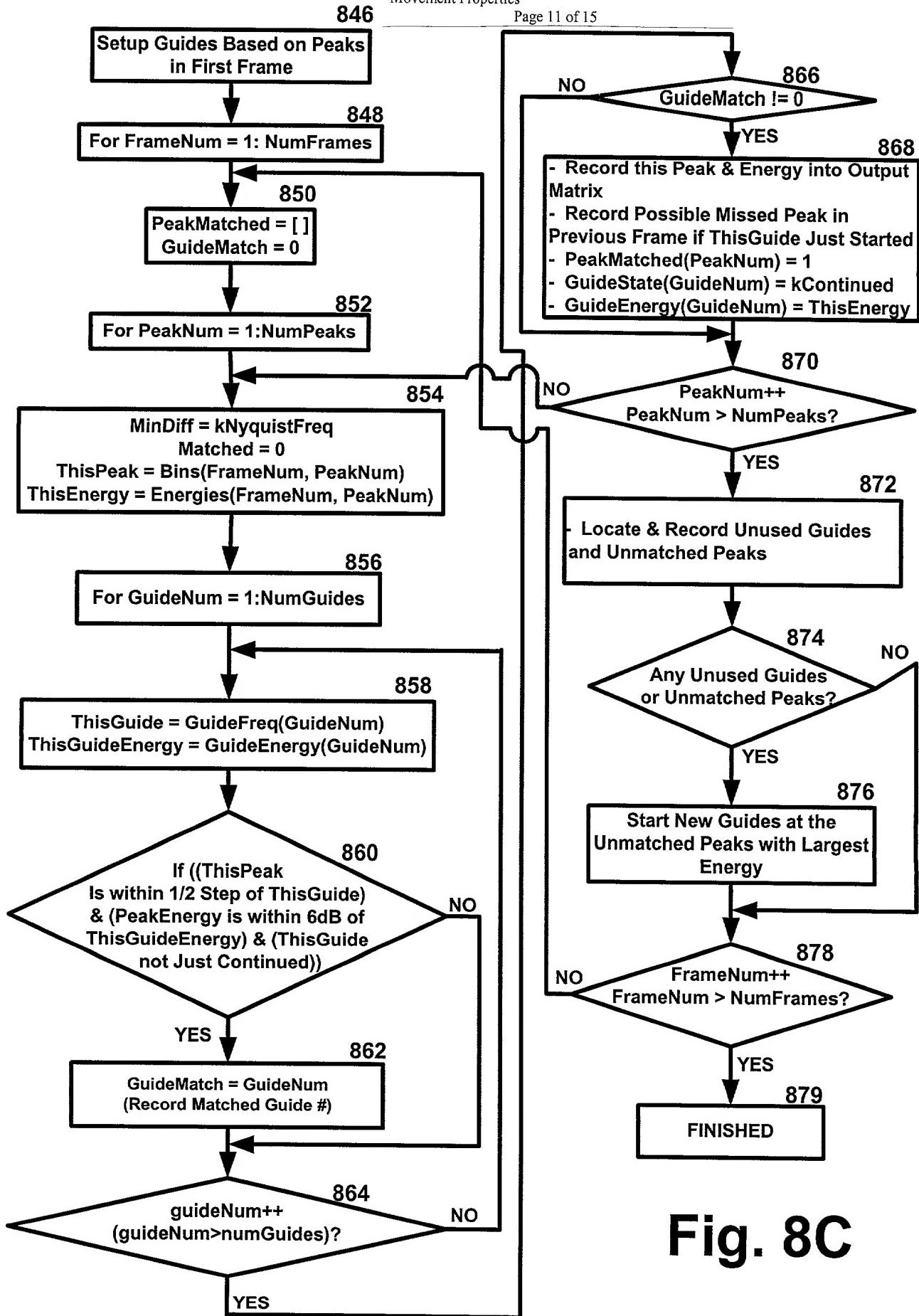


Fig. 8C

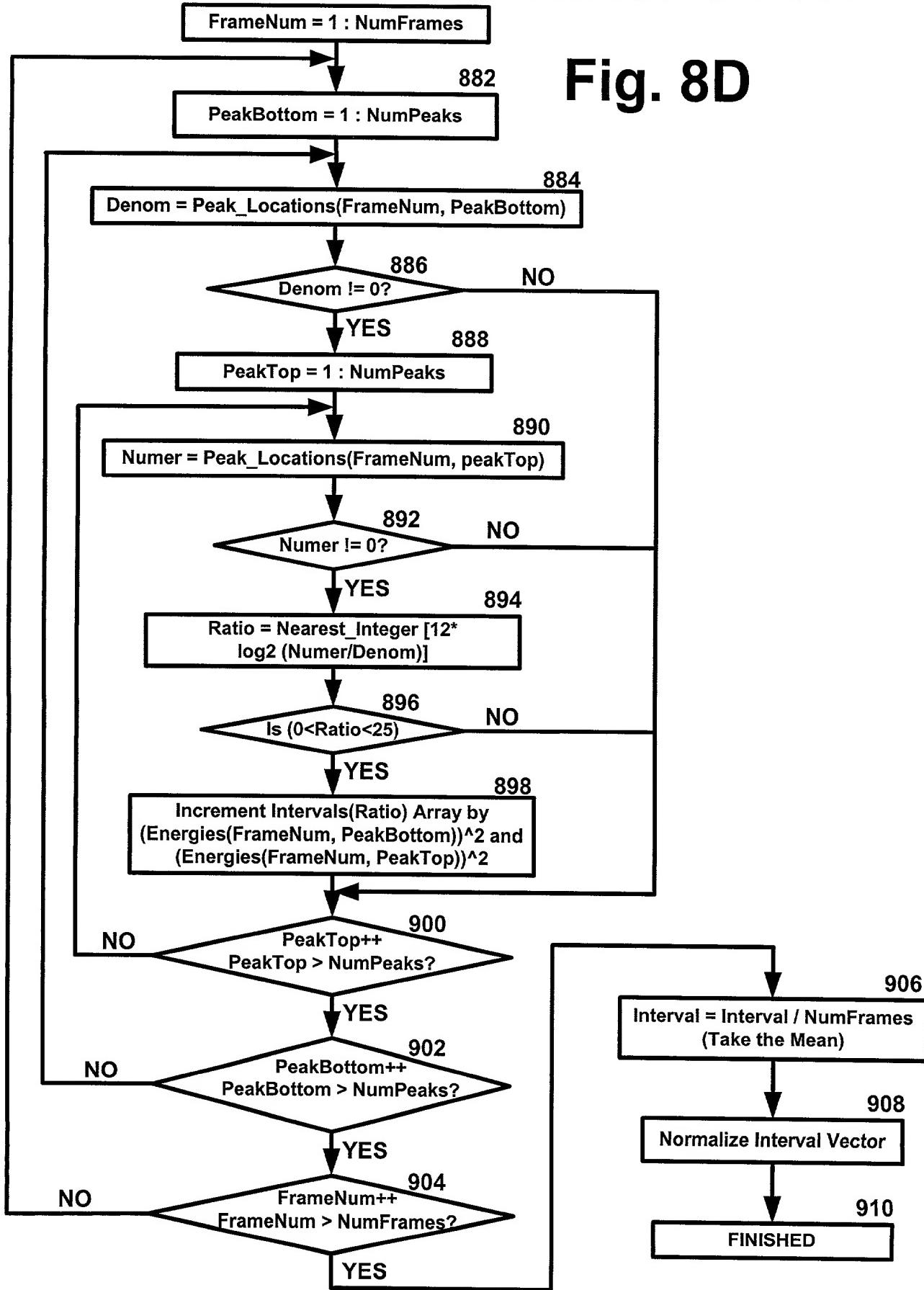


Fig. 9A

